

a coding and marking system completely embedded in the object, such that an outer shape and function of the object are not impaired, said coding and marking system comprising a matrix made of plastic, rubber or a material similar to rubber, wherein detectable material particles are embedded in the matrix at exactly fixed intervals in relation to each other and with good adhesion and in an undisplaceable manner; and

a scanner unit for reading and detecting the coding and marking from the coding and marking system when said scanner unit being moved past the object, or the object is moved past said scanner unit.

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20. A device for coding and marking objects comprising conveyor belts and conveyor belt connections made of plastic, rubber, or a material similar to rubber, comprising the following components:

a coding and marking system completely embedded in the object, such that an outer shape and function of the object are not impaired, said coding and marking system comprising a matrix made of plastic, rubber or a material similar to rubber, wherein magnetizable material is admixed to the matrix with uniform distribution; and

a scanner unit for reading and detecting the coding and marking from the coding and marking system when said scanner unit being moved past the object, or the object is moved past said scanner unit.

3 ~~21~~. The device according to claim 19, wherein the matrix is adapted to material-specific properties of the object.

4 ~~22~~. The device according to claim 20, wherein the matrix is adapted to material-specific properties of the object.

B 5 ~~23~~. The device according to claim 19, wherein the coding and marking system is present in the form of a strip, a circular segment or a cylindrical segment.

6 ~~24~~. The device according to claim 20, wherein the coding and marking system is present in the form of a strip, a circular segment or a cylindrical segment.

7 ~~25~~. The device according to claim 19, wherein the coding and marking system is arranged within the object in one or more discrete zones.